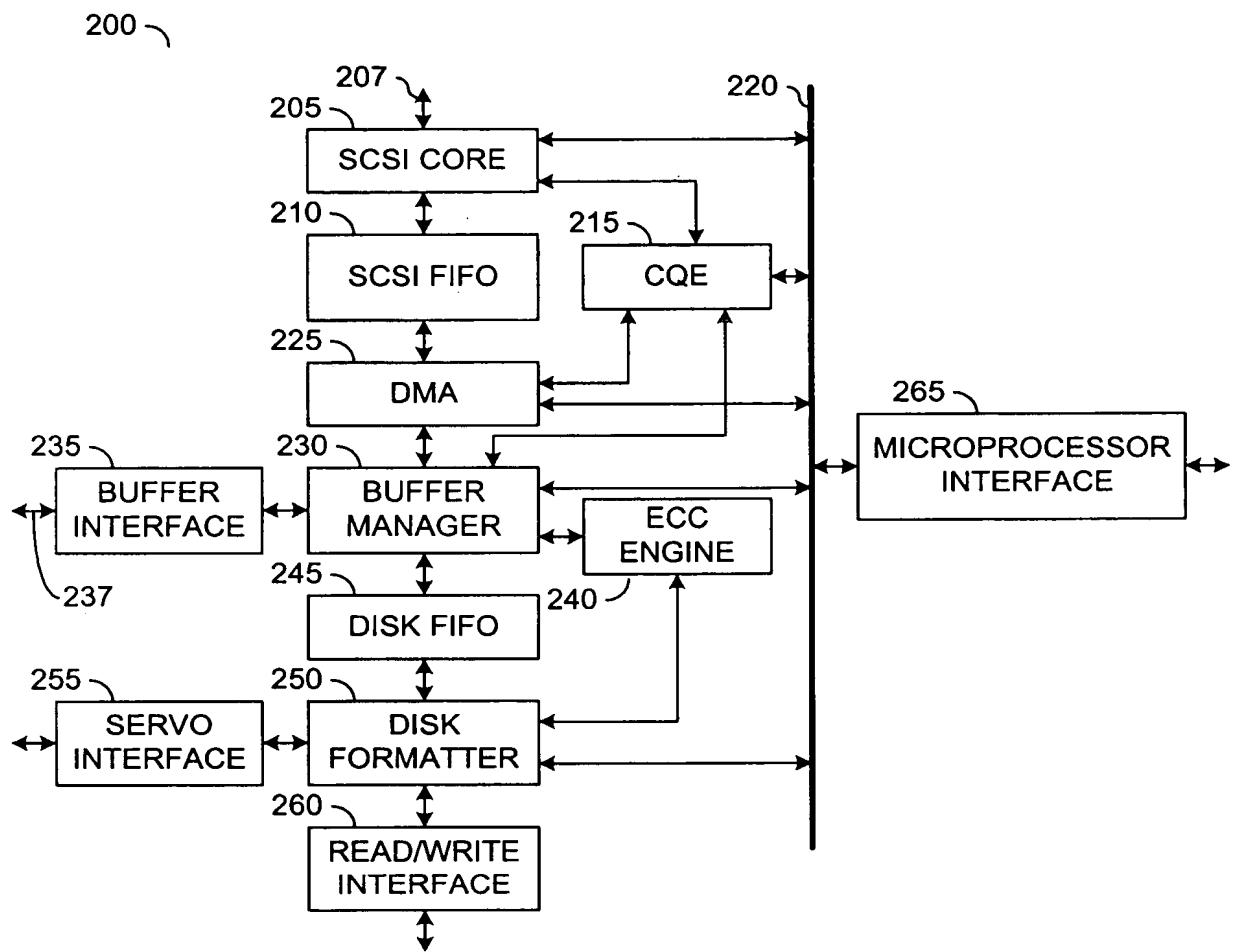
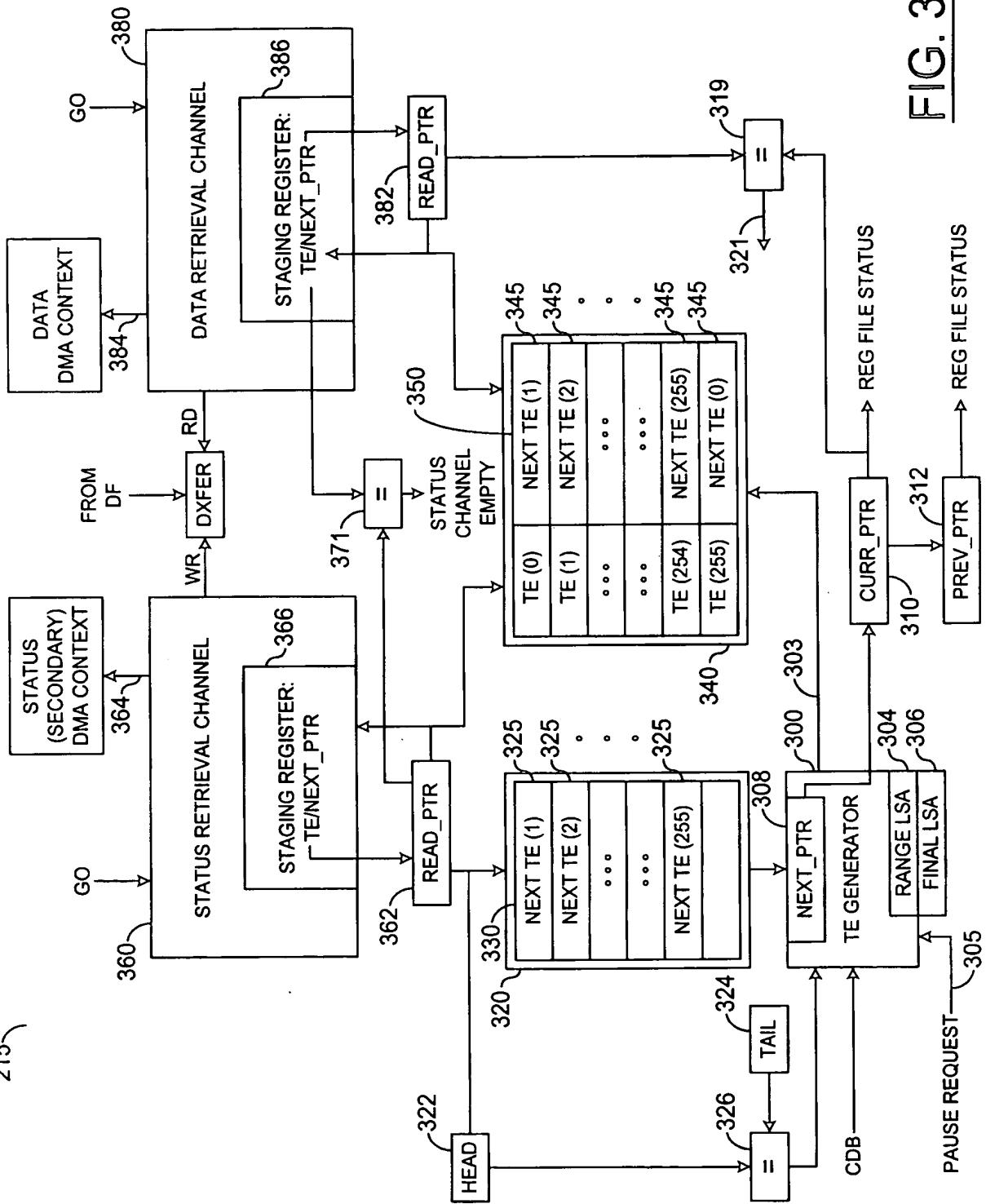


**FIG. 1**



**FIG. 2**



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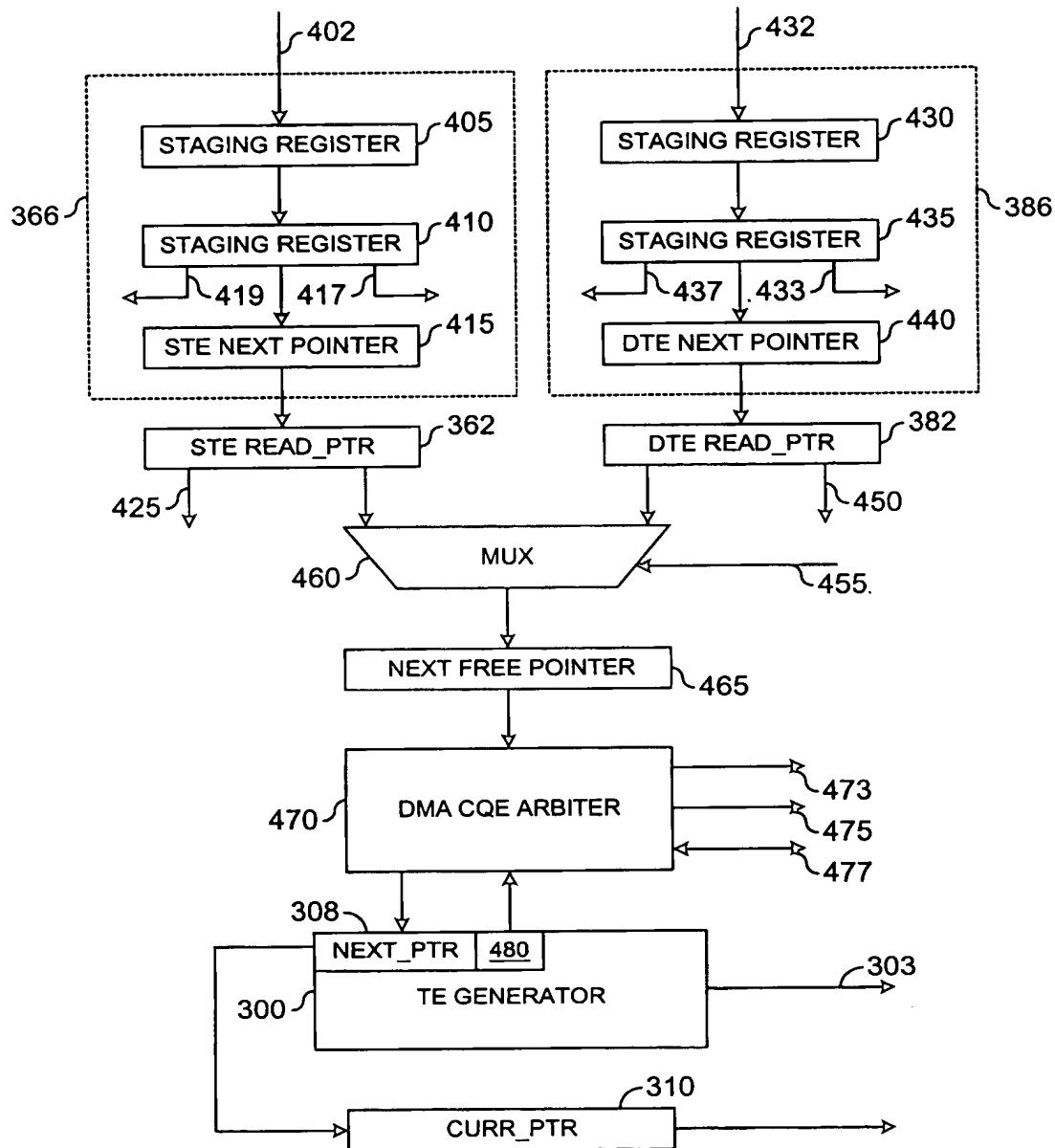


FIG. 4

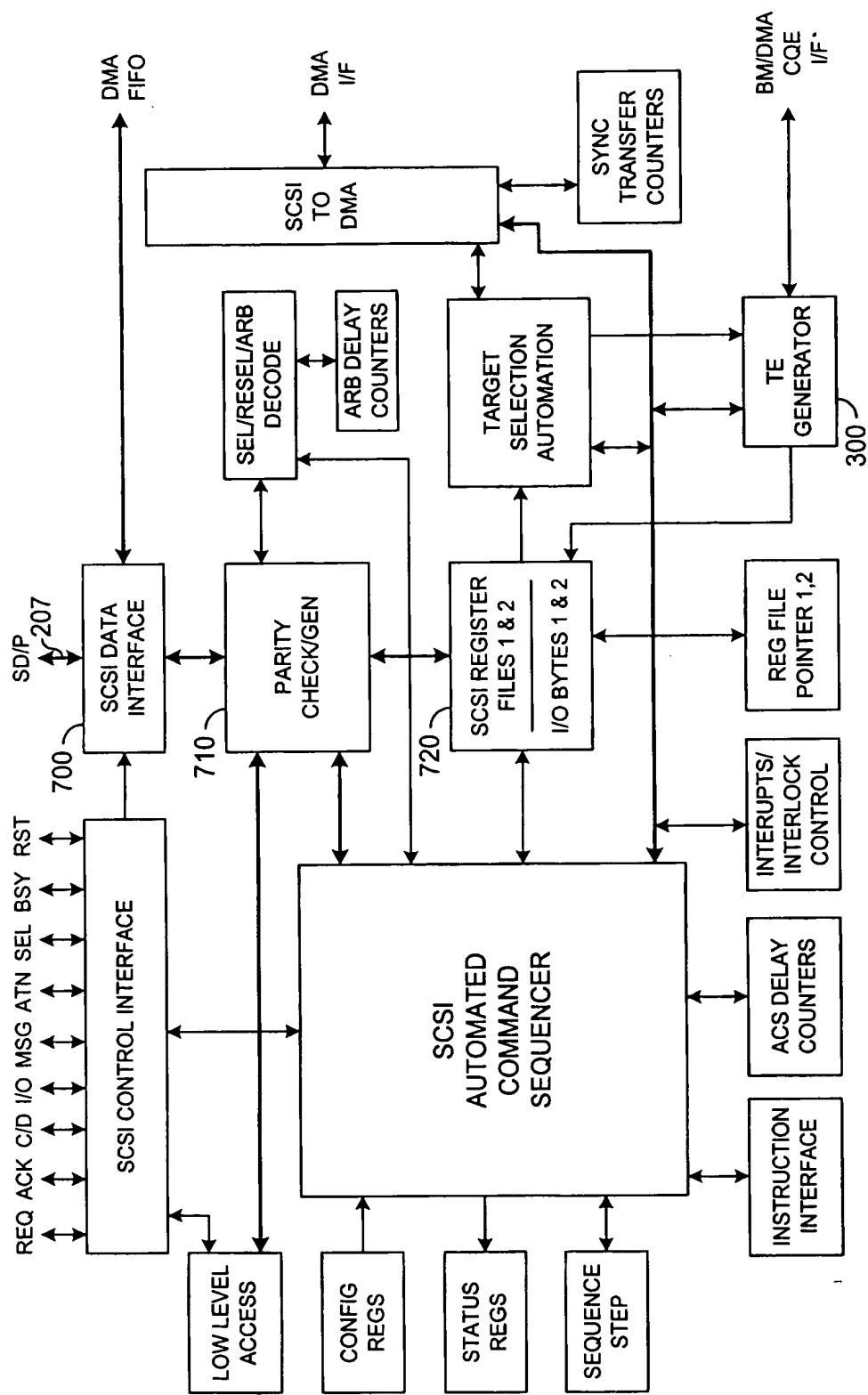
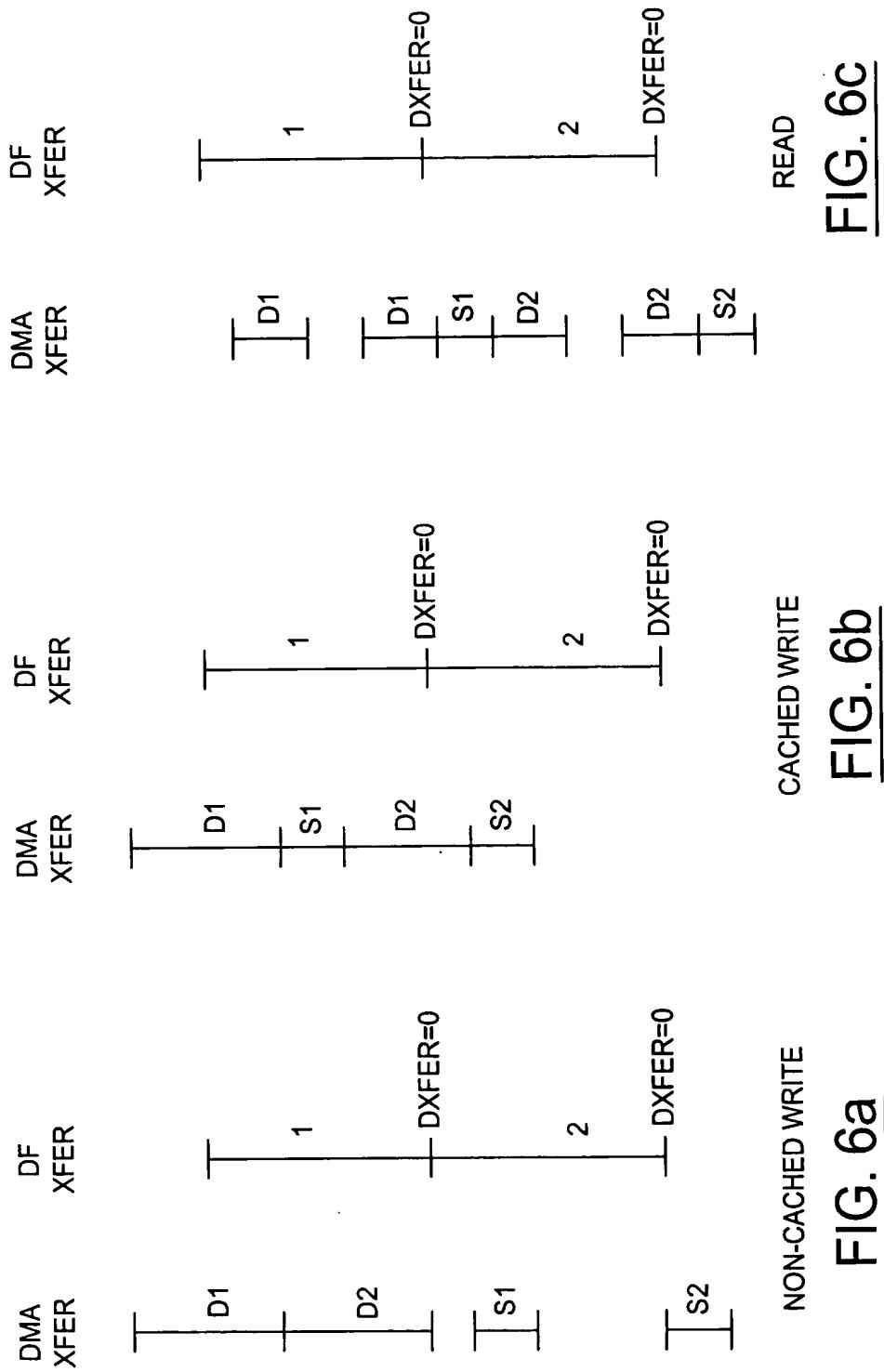


FIG. 5



**FIG. 6a**

**FIG. 6b**

**FIG. 6c**

CACHED WRITE

READ

S_SRF1		S_SRF2		AUTOMATED COMMANDS		NON-AUTOMATED COMMANDS	
S_ADDRESS	0CB0h	HIGH BYTE	LOW BYTE	HIGH BYTE	LOW BYTE	HIGH BYTE	LOW BYTE
0C80h	0CB0h	InitID (3:0)	IDENTIFY	InitID (3:0)	IDENTIFY	InitID (3:0)	IDENTIFY
0C82h	0CB2h	UNUSED	UNUSED	UNUSED	UNUSED	UNUSED	UNUSED
0C84h	0CB4h	OPCODE	LUN	CDB0 (OPCODE)	CDB1	QUEUE CODE	QUEUE TAG
0C86h	0CB6h	QUEUE CODE	QUEUE TAG	QUEUE CODE	QUEUE TAG	QUEUE CODE	QUEUE TAG
0C88h	0CB8h	LBA (NLSB)	LBA (LSB)	CDB4	CDB5	CDB4	CDB5
0C8Ah	0CBAh	LBA (MSB)	LBA (NMSB)	CDB2	CDB3	CDB2	CDB3
0C8Ch	0CBCh	SECONDARY LBA (NLSB)	SECONDARY LBA (LSB)	CDB8	CDB9	CDB8	CDB9
0C8Eh	0CBEh	SECONDARY LBA (MSB)	SECONDARY LBA (NMSB)	CDB6	CDB7	CDB6	CDB7
0C90h	0CC0h	LENGTH (NLSB)	LENGTH (LSB)	CDB12	CDB13	CDB12	CDB13
0C92h	0CC2h	LENGTH (MSB)	LENGTH (NMSB)	CDB10	CDB11	CDB10	CDB11
0C94h	0CC4h	SRF1/ SRF2S (RO)	SRF1/ SRF2S (RO)	SRF1S/ SRF2S (RO)		SRF1S/ SRF2S (RO)	
0C96h	0CC6h	RESERVED BYTE	CONTROL BYTE	CDB14	CDB15	CDB14	CDB15
0C98h	0CC8h	SRF1FLL/ SRF2FLL	SRF1FLL/ SRF2FLL	SRF1FLL/ SRF2FLL		SRF1FLL/ SRF2FLL	
0C9Ah	0CCAh	SRF1FLH/ SRF2FLH	SRF1FLH/ SRF2FLH	SRF1FLH/ SRF2FLH		SRF1FLH/ SRF2FLH	
0C9Ch	0CCCh	SRF1TCP/ SRF2TCP	SRF1TCP/ SRF2TCP	SRF1TCP/ SRF2TCP		SRF1TCP/ SRF2TCP	
0C9Eh	0CCEh	SRF1TPP/ SRF2TPP	SRF1TPP/ SRF2TPP	SRF1TPP/ SRF2TPP		SRF1TPP/ SRF2TPP	
0CA0h	0CD0h	SRF1CQES/ SRF2CQES	SRF1CQES/ SRF2CQES	SRF1CQES/ SRF2CQES		SRF1CQES/ SRF2CQES	

FIG. 7a

BYTE	AUTOPOSITIONED	NON AUTOPOSITIONED	REG FILE 1 ADDRESS	REG FILE 2 ADDRESS
BYTE 0	InitID	InitID	0C81h	0CB1h
BYTE 1	IDENTIFY	IDENTIFY	0C80h	0CB0h
BYTE 2	QUEUE CODE	QUEUE CODE	0C87h	0CB7h
BYTE 3	QUEUE TAG	QUEUE TAG	0C86h	0CB6h
BYTE 4	OPCODE	CDB0	0C85h	0CB5h
BYTE 5	LUN	CDB1	0C84h	0CB4h
BYTE 6	LBA (MSB)	CDB2	0C8Bh	0CBBh
BYTE 7	LBA (NMSB)	CDB3	0C8Ah	0CBAh
BYTE 8	LBA (NLSB)	CDB4	0C89h	0CB9h
BYTE 9	LBA (LSB)	CDB5	0C88h	0CB8h
BYTE 10	SLBA (MSB)	CDB6	0C8Fh	0CBFh
BYTE 11	SLBA (NMSB)	CDB7	0C8Eh	0CBEh
BYTE 12	SLBA (NLSB)	CDB8	0C8Dh	0CBDh
BYTE 13	SLBA (LSB)	CDB9	0C8Ch	0CBCh
BYTE 14	LEN (MSB)	CDB10	0C93h	0CC3h
BYTE 15	LEN (NMSB)	CDB11	0C92h	0CC2h
BYTE 16	LEN (NLSB)	CDB12	0C91h	0CC1h
BYTE 17	LEN (LSB)	CDB13	0C90h	0CC0h
BYTE 18	RESERVED BYTE	CDB14	0C97h	0CC7h
BYTE 19	CONTROL BYTE	CDB15	0C96h	0CC6h

FIG. 7b

BIT 15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
RESERVED	ENSEQ	DISCPRIV	CQETTD	CQELINK	CQEFLAG	CQENACK	CQEREAD	CQEPCODE	CQEINITID						

**CQE SEQUENTIAL FIELDS**  
**FIG. 8a**

BIT 15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
CQEFLWORD															

**CQE FINAL LSA LOW WORD**  
**FIG. 8b**

BIT 15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
CQEFLHWORD															

**CQE FINAL LSA HIGH WORD**  
**FIG. 8c**

BIT 15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
RESERVED	CMDGTMX	NXTPTRVALD	QFULLBUSY	SEQCMD	RWMND	AWROK	ACWROK	ACRDOK	TEGIP	CAF	TEFULL	DTEEOFQ	STEOFQ		

**CQE STATUS**  
**FIG. 8d**

CDB	REGISTERS	REGISTER FILE	TCB 1	TCB 2	TCB 3
LSA=0 LEN=2	FINAL LSA=2 CURRENT POINTER=0 PREVIOUS POINTER=X	PREV. FINAL LSA=X CURRENT POINTER=0 PREVIOUS POINTER=X	FIRST TE=0 LAST TE=X FIRST LSA=0 FINAL LSA=X		
LSA=2 LEN=3	FINAL LSA=5 CURRENT POINTER=1 PREVIOUS POINTER=0	PREV. FINAL LSA=2 CURRENT POINTER=1 PREVIOUS POINTER=0	FIRST TE=0 LAST TE=X FIRST LSA=0 FINAL LSA=X		
LSA=1000 LEN=1	FINAL LSA=1001 CURRENT POINTER=2 PREVIOUS POINTER=1	PREV. FINAL LSA=5 CURRENT POINTER=2 PREVIOUS POINTER=1	FIRST TE=0 LAST TE=1 FIRST LSA=0 FINAL LSA=5	FIRST TE=2 LAST TE=X FIRST LSA=1000 FINAL LSA=X	
LSA=5 LEN=1	FINAL LSA=6 CURRENT POINTER=3 PREVIOUS POINTER=2	PREV. FINAL LSA=1001 CURRENT POINTER=3 PREVIOUS POINTER=2	FIRST TE=0 LAST TE=1 FIRST LSA=0 FINAL LSA=5	FIRST TE=2 LAST TE=2 FIRST LSA=1000 FINAL LSA=1001	FIRST TE=3 LAST TE=X FIRST LSA=5 FINAL LSA=X

F|G. 9

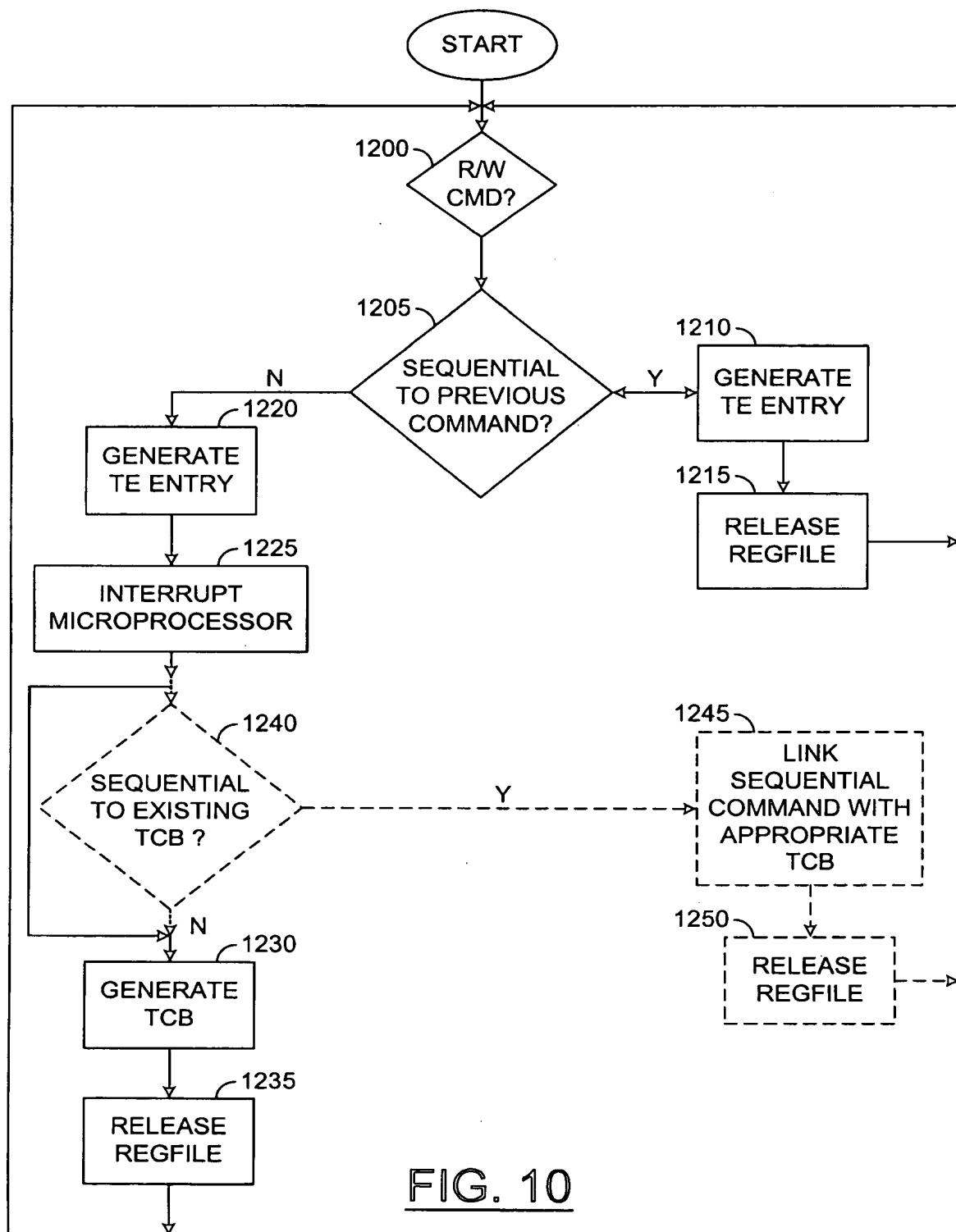


FIG. 10